Content Strand: *Statistics and Probability*
Cross Curricula Links: *English*
General Capabilities: *Literacy, Numeracy, ICT, Critical and creative thinking, Personal and social competence*

Student Name: _____
Class: _____ Date: _____

Proficiency	Criteria and relevant questions				
	4	**3**	**2**	**1**	**0**
Understanding	**Q1** Lists a total of at least 4 ways to estimate real life belly-button height and, **Q3** height	**Q1** Lists a total of 3 ways to estimate real life belly-button height and, **Q3** height	**Q1** Lists a total of 2 ways to estimate real life belly-button height and, **Q3** height	**Q1** Is able to give 1 way to estimate real life belly-button height or, **Q3** height	**Q1** Incorrect or no attempt to estimate real life belly-button height and, **Q3** height
Fluency	**Q2** Uses ratio to estimate belly-button height with clear working shown.	**Q2** Uses multiplication method to estimate belly-button height with clear working shown.	**Q2** Uses multiplication or ratio method to estimate belly-button height with some working shown.	**Q2** Uses rough estimate of belly-button height with clear explanation of process given.	**Q2** Incorrect or no attempt to estimate real life belly-button height.
	Q4 Uses an equation of the line of best fit to estimate height	**Q4** Uses a graph and line of best fit by eye to give an estimate of height	**Q4** Uses the median height of several males to estimate height	**Q4** Uses same size classmate technique to estimate height	**Q4** Uses inappropriate method to estimate height or no attempt
Problem Solving	**Q5** Lists at least 3 ways to estimate real life height and, **Q6** Develops and conducts an accurate and detailed investigation to find an estimate of a person's height. Incorporates clear working including graphs, tables etc.	**Q5** Lists at least 2 ways to estimate real life height and, **Q6** Develops and conducts a clear and mostly accurate investigation to find an estimate of a person's height. Incorporates working including a graph or table etc.	**Q5** Lists 2 ways to estimate real life height and, **Q6** Conducts a mostly clear investigation to find an estimate of a person's height. Incorporates some working out.	**Q5** Gives 1 way to estimate real life height and, **Q6** Attempts an investigation to find an estimate of a person's height. Incorporates some working out.	**Q5** Incorrect or incorrect method to estimate real life height and, **Q6** Makes minimal attempt to estimate height, or no attempt
Reasoning	**Q7** Writes a detailed report, accurately and clearly states conclusion with clear	**Q7** Writes a detailed report, clearly states conclusion with links to results.	**Q7** Writes a report, states conclusion and attempts links to results.	**Q7** Attempts a report stating conclusion.	**Q7** Very limited or no report.

Teacher Comments:

Extension completed: Yes No

FINAL MARK: /20